

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re of Application of: Michael HAGEN  
Application No.: 10/549,302      Group Art No.:  
Filed: September 15, 2005      Examiner:  
For: MUTANT CHOLERA HOLOTOXIN AS AN ADJUVANT AND AN  
ANTIGEN CARRIER PROTEIN  
Confirmation No.: 5958  
Customer Number: 25291

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
REVOCATION OF PRIOR POWERS OF ATTORNEY

As assignee of record of the entire interest of the above identified application, all powers of attorney previously given are hereby revoked and the following attorney(s) and/or agent(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

All practitioners associated with Customer Number 25291

Please send all correspondence related to this matter to: Customer Number 25291

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Assignee of Entire Interest:  
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Assignment from Inventors: Michael HAGEN  
Recorded in PTO on October 6, 2005  
Reel 016854 Frame 0525

CERTIFICATION UNDER 37 CFR §3.73 (b)

The undersigned has reviewed the recordation information for the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date:

*January 8, 2008*



Michael P. Straher  
Assistant Secretary